



Analytical Laboratory
13339 Hagers Ferry Road
Huntersville, NC 28078-7929
McGuire Nuclear Complex – MG03A2
Phone: 704-875-5245 Fax: 704-875-4349

Job Summary Report

Job Number: 10-SEP-0022

Project Name: NPDES Monthly
Customer Name: Sue Wallace, Tara Thomas
Copy To: Matthew Dorn, Mark Harper, Todd Spade
Customer Address: Miami-Fort

Lab Contact: Theron James
Lab Contact Phone: 704-875-4795

Report Authorized By:
(Printed Name) THERONA JAMES

Report Authorized By:
(Signature) Theron James Date: 9/21/10

Data Package

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical Laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report
Analytical Laboratory Certificate of Analysis
Analytical Laboratory QC Reports (if applicable)
Sub-contracted Laboratory Results
Customer Specific Data Sheets, Reports & Documentation (if applicable)
Customer Database Entries
Test Case Narratives
Chain of Custody (COC)

Job Summary Report

Certification

The Analytical Laboratory holds the following Certifications:

New York State Department of Health Certification # 11717(NELAC)
North Carolina Department of Health & Human Services Certification # 37804
South Carolina (DHEC) Laboratory ID # 99005
North Carolina (DENR) Certification # 248

Analytical results listed in this report may not be certified by the authorities referenced above. Contact the Analytical Laboratory for definitive information about the certification status of specific methods. The results meet all requirements of NELAC except where deviations are noted in this report.

Data Flags

Any analytical tests or individual analytes within a test flagged with an "X" or a "1" indicate a deviation from the method quality system or quality control requirement.

Calculations

All results are reported on a wet weight basis unless otherwise noted.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date	Collected By	Sample Description
30014453	MIAMI FORT	09/07/2010	MARK HARPER	OUTFALL 002
30014454	MIAMI FORT	09/07/2010	MARK HARPER	OUTFALL 608
<hr/>				
2 TOTAL SAMPLES				

Job Summary Report

Validation of Analytical Data Package

- i) COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures). ☒ Yes ☐ No
- ii) All results are less than the laboratory reporting limits. ☐ Yes ☒ No
- iii) All laboratory QA/QC requirements are acceptable. ☒ Yes ☐ No
- iv) NPDES and TCLP results are below permit or regulatory limits respectively. ☒ Yes ☐ No

If iv) above is No, document below:

Variable	Result	Permit Limit	Notes

- v) Components of the Job Summary Report arranged in order stipulated on page one. ☒ Yes ☐ No

Indicate components included:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Job Summary Report | <input type="checkbox"/> Customer Specific Data Sheets, Reports & Documentation (if applicable) |
| <input checked="" type="checkbox"/> Analytical Laboratory Certificate of Analysis | <input type="checkbox"/> Customer Database Entries |
| <input type="checkbox"/> Analytical Laboratory QC Report (if applicable) | <input type="checkbox"/> Test Case Narratives |
| <input type="checkbox"/> Sub-contracted Laboratory Results | <input checked="" type="checkbox"/> Chain of Custody |

- vi) Notes and Additional Information



MIAMI FORT

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Job # 10-SEP-0022

Analytical Laboratory
Page 4 of 62 Samples
17 Tests
Included in this ReportLab ID: **30014453** Sample Desc: **OUTFALL 002**

Sample Collected: 9/7/2010 07:39:00

Collected By: MARK HARPER

Customer ID: WALLACE/THOMAS

Date Initiated in Lab: 9/1/2010 08:26:55

TOTAL DISSOLVED SOLIDS (EPA)

Data Posted: 9/14/2010 10:35:37

Method: SM2540D

			<u>Reporting Limit</u>	<u>Flag</u>
TDS	1400	mg/L	10	0

Lab ID: **30014454** Sample Desc: **OUTFALL 608**

Sample Collected: 9/7/2010 07:30:00

Collected By: MARK HARPER

Customer ID: WALLACE/THOMAS

Date Initiated in Lab: 9/1/2010 08:46:18

ALKALINITY (FIXED END POINT 4.5)

Data Posted: 9/10/2010 11:01:31

Method: SM2320B

			<u>Reporting Limit</u>	<u>Flag</u>
ALKALINITY	1200	mg-CaCO ₃ /L	0.10	0

ARSENIC BY ICP-MS (DIGESTED)

Data Posted: 9/14/2010 15:51:57

Method: EPA 200.8/6020

			<u>Reporting Limit</u>	<u>Flag</u>
ARSENIC	< 20.0	ug/L	20.0	0

BARIUM BY ICP-MS (DIGESTED)

Data Posted: 9/14/2010 15:51:57

Method: EPA 200.8/6020

			<u>Reporting Limit</u>	<u>Flag</u>
BARIUM	< 20.0	ug/L	20.0	0

BORON BY ICP (DIGESTED)

Data Posted: 9/13/2010 15:20:57

Method: EPA 200.7/6010B

			<u>Reporting Limit</u>	<u>Flag</u>
BORON	336	mg/L	1.00	0

CADMIUM BY ICP-MS (DIGESTED)

Data Posted: 9/14/2010 15:51:57

Method: EPA 200.8/6020

			<u>Reporting Limit</u>	<u>Flag</u>
CADMIUM	< 20.0	ug/L	20.0	0

CHLORIDE (IC)

Data Posted: 9/13/2010 12:01:01

Method: EPA 300.0

			<u>Reporting Limit</u>	<u>Flag</u>
CHLORIDE	8000	mg/L	200	0

CHROMIUM BY ICP-MS (DIGESTED)

Data Posted: 9/14/2010 15:51:57

Method: EPA 200.8/6020

			<u>Reporting Limit</u>	<u>Flag</u>
CHROMIUM	< 20.0	ug/L	20.0	0

COPPER BY ICP-MS (DIGESTED)

Data Posted: 9/14/2010 15:51:57

Method: EPA 200.8/6020

			<u>Reporting Limit</u>	<u>Flag</u>
COPPER	< 20.0	ug/L	20.0	0

FLUORIDE (IC)

Data Posted: 9/13/2010 12:01:02

Method: EPA 300.0

			<u>Reporting Limit</u>	<u>Flag</u>
FLUORIDE	11	mg/L	10	0

IRON BY ICP-MS (DIGESTED)

Data Posted: 9/14/2010 15:51:58

Method: EPA 200.8

			<u>Reporting Limit</u>	<u>Flag</u>
IRON	< 20.0	ug/L	20.0	0



MIAMI FORT

Certificate of Laboratory Analysis

*This report shall not be reproduced, except in full.***Job # 10-SEP-0022**Analytical Laboratory
Page 5 of 6**2 Samples**
17 Tests
Included in this ReportLab ID: **30014454** Sample Desc: **OUTFALL 608**

Sample Collected: 9/7/2010 07:30:00

Collected By: MARK HARPER

Customer ID: WALLACE/THOMAS

Date Initiated in Lab: 9/1/2010 08:46:18

LEAD BY ICP-MS (DIGESTED)

Data Posted: 9/14/2010 15:51:57

Method: EPA 200.8/6020

LEAD < 20.0 ug/L

<u>Reporting Limit</u>	<u>Flag</u>
20.0	0

MANGANESE BY ICP (DIGESTED)

Data Posted: 9/13/2010 15:20:57

Method: EPA 200.7/6010B

MANGANESE 0.0180 mg/L

<u>Reporting Limit</u>	<u>Flag</u>
0.00500	0

SULFATE (IC)

Data Posted: 9/13/2010 12:01:03

Method: EPA 300.0

SULFATE 18000 mg/L

<u>Reporting Limit</u>	<u>Flag</u>
200	0

TOTAL DISSOLVED SOLIDS (EPA)

Data Posted: 9/14/2010 10:36:42

Method: SM2540D

TDS 39000 mg/L

<u>Reporting Limit</u>	<u>Flag</u>
10	0

TOTAL SUSPENDED SOLIDS (EPA)

Data Posted: 9/9/2010 15:30:37

Method: SM2540D

TSS 26 mg/L

<u>Reporting Limit</u>	<u>Flag</u>
5.0	0

ZINC BY ICP-MS (DIGESTED)

Data Posted: 9/14/2010 15:51:57

Method: EPA 200.8/6020

ZINC < 40.0 ug/L

<u>Reporting Limit</u>	<u>Flag</u>
40.0	0



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Duke Energy Analytical Laboratory
Mail Code MGO3A2 (Building 7405)
13339 Hagers Ferry Rd
Huntersville, N.C. 28078
(704) 875-5245
Fax: (704) 875-4349

Customer must Complete

1) Project Name MIAMI-FORT NPDES Monthly (Monthly Sampling - Sept. 7)	2) Phone No:
3) Client Miami-Fort - Sue Wallace, Tara Thomas	4) Fax No:
5) Business Unit:	7) Resp. Center To:
6) Process:	10) Mail Code:
8) Project ID:	9) Activity ID:

LAB USE ONLY

11) Lab ID
30014453
30014454

Customer to complete appropriate columns to right

1) Relinquished By <i>Mick Hays</i>	Date/Time 9-7-10 0850	2) Accepted By <i>UPS</i>	Date/Time 9/7/10
3) Relinquished By <i>UPS</i>	Date/Time 9/8/10	4) Accepted By <i>UPS</i>	Date/Time 9/8/10 15:30
5) Relinquished By	Date/Time	6) Accepted By	Date/Time
7) Relinquished By	Date/Time	8) Accepted By	Date/Time
9) Sealed/locked By <i>Mick Hays</i>	Date/Time 9-7-10 0850	10) Sealed/lock Opened By <i>UPS</i>	Date/Time 9/8/10 16:10
11) Sealed/locked By	Date/Time	12) Sealed/lock Opened By	Date/Time

Comments
HAD TO SIGN FOR SAMPLE due to shipment needing to be sent MSH 9-7-10 0850

Customer, IMPORTANT!
Please indicate desired turnaround.

22) Requested Turnaround
14 Days _____
7 Days _____
48 Hr _____
Other _____
* Add Cost Will Apply

COOLER WAS SENT TO DUK ENERGY SERVICE AND THEN SENT DUK ANALYTICAL LAB 9/8/10

Analytical Laboratory Use Only

LIMS # *10-5680022*
Logged By *JA* Date & Time *9/1/10 8:26*
Vendor *JA* Date *9/1/10*
Cooler Temp (C) *0.9*
19) Preserve: 1=HCL, 2=H2SO4, 3=HNO3, 4=Ice, 5=None
SAMPLE PROGRAM
Ground Water _____
NPDES ☒ _____
Drinking Water _____
UST _____
RCRA Waste _____

Customer to complete all appropriate non-shaded areas.

14) Collection Information		16) Analyses Required		17) Comp.		18) Grab		TDS		CI, F, SO4		As, Fe, Ba, B, Mn		Zn, Cd, Pb, Cr, Cu		TSS, Alkalinity	
Date	Time	Signature	17) Comp.	18) Grab	TDS	CI, F, SO4	As, Fe, Ba, B, Mn	Zn, Cd, Pb, Cr, Cu	TSS, Alkalinity								
9-7-10	0739	<i>Mick Hays</i>	X	X	1												
9-7-10	0730	<i>Mick Hays</i>	X	X	1	1	1	1	2								